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1 Caching XML Web Services for Mobility

May 2003 Queue, Volume 1 Issue 3

Publisher: ACM

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2 A dynamic binary instrumentation engine for the ARM architecture

Kim Hazelwood, Artur Klauser

October 2006 CASES '06: Proceedings of the 2006 international conference on embedded systems

Publisher: ACM

Full text available: Pdf (455.03 KB)

Additional Information: full citation, abs

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Dynamic binary instrumentation (DBI) is a powerful technique for analyzing and modifying the execution of programs at runtime. Numerous DBI frameworks have been developed for general-purpose architectures and for embedded architectures. In this paper, we present a DBI framework for the ARM architecture. Our system, called ARM-DBI, provides a dynamic translation layer between the application and the hardware. It translates assembly instructions into their corresponding machine code and handles memory access and interrupt handling. We have implemented ARM-DBI on top of the QEMU emulator and evaluated its performance. The results show that ARM-DBI is able to handle complex applications and provides a good performance.

Keywords: binary instrumentation, dynamic translation, embedded architectures, dynamic binary instrumentation, ARM architecture

3 Communications of the ACM: Volume 51 Issue 10

October 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.16 MB) Additional Information: full citation, abs

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4 Communications of the ACM: Volume 52 Issue 10

October 2009 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.38 MB) Additional Information: full citation, abs

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5 Communications of the ACM: Volume 53 Issue 4

April 2010 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (14.07 MB) Additional Information: full citation, abs

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6 Incremental Support Vector Learning: Analysis, Implementation and Pavel Laskov, Christian Gehl, Stefan Krüger, Klaus-Robert Müller December 2006 **The Journal of Machine Learning Research**, Volume 7
Publisher: MIT Press

Full text available: Pdf (297.83 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 115, Download

Incremental Support Vector Machines (SVM) are instrumental in practical applications. This paper focuses on the design and analysis of efficient incremental SVM learning algorithms that are stable and robust ...

7 Beyond streams and graphs: dynamic tensor analysis

Jimeng Sun, Dacheng Tao, Christos Faloutsos August 2006 **KDD '06: Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM

Full text available: Pdf (1.14 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 159, Download

How do we find patterns in author-keyword associations, evolving over time? We propose a matrix factorization approach that decomposes customer sales information. Matrix decompositions, like principal component analysis, are invaluable tools for mining, ...

8 Proceedings of the 2008 ACM symposium on Applied computing

Roger L. Wainwright, Hisham M. Haddad March 2008 **SAC '08: Proceedings of the 2008 ACM symposium on Applied computing**

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Welcome to the 23rd Annual ACM Symposium on Applied Computing (SAC). This year's conference is designed to bring together computer scientists, engineers, and practitioners seeking innovative ideas and solutions in applied computing. This year, the conference ...

9 A regulated transitive reduction (RTR) for longer memory race records

Min Xu, Mark D. Hill, Rastislav Bodik November 2006 **ASPLOS-XI: Proceedings of the 12th international conference on Architectural support for programming languages and operating systems**

Publisher: ACM

Full text available: Pdf (524.02 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Download

Now at VMware. Multithreaded deterministic replay has important applications in memory intrusion analysis. Memory race recording is a key technology for multithreaded programs. This paper presents a new technique that considerably ...

Keywords: determinism, multithreading, race recording

Also published in:

October 2006 SIGARCH Computer Architecture News Volume 34 Issue 5
October 2006 SIGOPS Operating Systems Review Volume 40 Issue 5
November 2006 SIGPLAN Notices Volume 41 Issue 11

10 Program locality analysis using reuse distance

 Yutao Zhong, Xipeng Shen, Chen Ding

 August 2009 Transactions on Programming Languages and Systems

Publisher: ACM  Request Permissions

Full text available:  Pdf (2.15 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 333, Downloaded by 1 user

On modern computer systems, the memory performance of an application depends on the execution, locality-correlated measures like average miss rate or working set size—the ...

Keywords: Program locality, reuse distance, stack distance, training-based methods

11 The Conquest file system: Better performance through a disk/persistent memory interface

 An-Ji Andy Wang, Geoff Kuenning, Peter Reiher, Gerald Popek

 August 2006 Transactions on Storage (TOS), Volume 2 Issue 3

Publisher: ACM  Request Permissions

Full text available:  Pdf (1.34 MB)

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Modern file systems assume the use of disk, a system-wide performance bottleneck. Caching and RAM file systems either impose high overhead to access memory or require frequent writes to achieve data persistence ...

Keywords: Persistent RAM, file systems, performance measurement, software engineering

12 Practical escape analyses: how good are they?

 Kyungwoo Lee, Xing Fang, Samuel P. Midkiff

 June 2007 VEE '07: Proceedings of the 3rd international conference on Virtual Execution Environments

Publisher: ACM  Request Permissions

Full text available:  Pdf (626.23 KB)

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Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 58, Downloaded by 1 user

A key analysis developed for the compilation of parallel programs is *three-level escape analysis*, which determines what objects are accessed in more than one program ...

Keywords: Java, analysis precision, dynamic compilation, escape analysis

13 Traffic modeling and proportional partial caching for peer-to-peer systems

Mohamed Hefeeda, Osama Saleh

December 2008 **IEEE/ ACM Transactions on Networking (TON)** . Volume 16 Issue 6 December 2008

Publisher: IEEE Press [Request Permissions](#)

Full text available: [PDF](#) (558.70 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 189, Download

Peer-to-peer (P2P) file sharing systems generate a major portion of the increase in the future. We explore the potential of deploying proxy cache with the goal ...

Keywords: internet measurement, network protocols, peer-to-peer sys

14 The LOCKSS peer-to-peer digital preservation system

 Petros Maniatis, Memi Rousopoulos, T. J. Giuli, David S. H. Rosenthal, Ma

February 2005 **Transactions on Computer Systems (TOCS)** . Volume 23 Issue 1 February 2005

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (715.30 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 156, Download

The LOCKSS project has developed and deployed in a world-wide test a Journals and other archival information published on the Web. It consists of persistent Web caches ...

Keywords: Rate limiting, digital preservation, replicated storage

15 The quest for scalable support of data-intensive workloads in distributed systems

 Ioan Raicu, Ian T. Foster, Yong Zhao, Philip Little, Christopher M. Moretti, and Michael L.偷

June 2009 **HPDC '09: Proceedings of the 18th ACM international symposium on High performance distributed computing**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (1.28 MB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 217, Download

Data-intensive applications involving the analysis of large datasets often require significant amounts of memory and processing power. These resources, for which data locality can be crucial to high throughput and low latency, are often limited. This paper presents a new approach that ...

Keywords: data diffusion, data management, data-aware scheduling, fault tolerance

16 Managing prefetch memory for data-intensive online servers

Chuanpeng Li, Kai Shen

December 2005 **FAST'05: Proceedings of the 4th conference on USENIX Annual Technical Conference - Volume 4** . Volume 4 December 2005

Publisher: USENIX Association

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Data-intensive online servers may contain a significant amount of prefe

I/O prefetching and high execution concurrency. Using a traditional access reclamation policy, memory ...

17 New results on web caching with request reordering

Susanne Albers

June 2004 **SPAA '04: Proceedings of the sixteenth annual ACM symposium on architectures**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (186.52 KB)

Additional Information: [full citation](#), [abstract](#)

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We study web caching with request reordering. The goal is to maintain a cache so that requests can be served at low cost. To improve cache hit rates, a limited number of requests are moved to other servers [6], who recently ...

Keywords: approximation, batch, cache, competitive, document, offline, online, web

18 A concurrent dynamic analysis framework for multicore hardware

Jungwoo Ha, Matthew Arnold, Stephen M. Blackburn, Kathryn S. McKinley

October 2009 **OOPSLA '09: Proceeding of the 24th ACM SIGPLAN conference on object-oriented programming, systems, languages and applications**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (1.26 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 187, Download

Software has spent the bounty of Moore's law by solving harder problems such as parallelizing compilers, parallelizing databases, parallelizing file systems, parallelizing level languages, virtual machine technology, binary rewriting, and dynamic memory management. We believe that the next wave of productivity gains will come from more productive and programs ...

Keywords: dynamic analysis, instrumentation, multicore, profiling

Also published in:

October 2009 **SIGPLAN Notices** Volume 44 Issue 10

19 Phase-based cache reconfiguration for a highly-configurable two-level cache

Ann Gordon-Ross, Jeremy Lau, Brad Calder

May 2008 **GLSVLSI '08: Proceedings of the 18th ACM Great Lakes symposium on VLSI**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (286.03 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 53, Download

Phase-based tuning methodologies specialize system parameters for each application. These parameters are varied during execution, as opposed to remaining fixed as in an application. This paper explores how logic suggests ...

Keywords: cache tuning, caches, configurable architecture, configurable cache, reconfiguration, phase-based tuning

 Towards practical page coloring-based multicore cache management
Xiao Zhang, Sandhya Dwarkadas, Kai Shen
April 2009 **EuroSys '09: Proceedings of the 4th ACM European conference on Computer Systems**
Publisher: ACM  Request Permissions
Full text available:  Pdf (1.03 MB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 257, Downloaded 10 times

Modern multi-core processors present new resource management challenges for efficiently simultaneously executing processes sharing on-chip resources (particularly memory). This paper demonstrates that the operating system ...

Keywords: cache partitioning, multi-core, page coloring, resource management

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